



PTO/SB/08a/b (08-03)

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| Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Complete if Known | |
| | | | | Application Number | 10/500,240 |
| | | | | Filing Date | March 23, 2005 |
| | | | | First Named Inventor | Stefan Wildt |
| | | | | Art Unit | 1632 |
| | | | | Examiner Name | Joanne Hama |
| Sheet | 1 | of | 1 | Attorney Docket Number | GFI/102 |

| U.S. PATENT DOCUMENTS | | | | | |
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| Examiner Initials* | Cite No. ¹ | Document Number Number-Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
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| FOREIGN PATENT DOCUMENTS | | | | | | |
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| | | Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | | | | |
| /JH/ | BB | EP 1211310 | 06-05-2002 | Chiba et al. | | |
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

| NON PATENT LITERATURE DOCUMENTS | | | | | |
|---------------------------------|-----------------------|---|--|--|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | T ² |
| /JH/ | CF3 | Callewaert et al., "Use of HDEL-tagged Trichoderma reesei mannosyl oligosaccharide 1,2-alpha-D-mannosidase for N-glycan engineering in Pichia pastoris" <i>FEBS Letter</i> , 503(2-3):173-178 (2001). | | | |
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| | | | | Art Unit | Not Yet Assigned 1632 |
| | | | | Examiner Name | Not Yet Assigned J. Hama |
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| /JH/ | BA | WO 02/00879 | 01-03-2002 | Gerngross | | |
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| ↓ | CB | Aebi et al., "Cloning and Characterization of the ALG3 Gene of <i>Saccharomyces Cerevisiae</i> " <i>Glycobiology</i> 6(4): 439-444 (1999). | | | |
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| | CI | Berninsone et al., "Regulation of Yeast Golgi Glycosylation", <i>J. Biol. Chem.</i> , 270 (24): 14564-14567 (1995). | | | |
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| | | | | Examiner Name | Not Yet Assigned |
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| /JH/ | CJ | Berninsone et al., "Functional Expression of the Murine Golgi CMP-Sialic Acid Transporter in <i>Saccharomyces cerevisiae</i> ", <i>J. Biol. Chem.</i> 272(19):12616-9 (1997). | |
| | CK | Berninsone, "Nucleotide Sugar Transporters of the Golgi Apparatus." Current opinion in Structural Biology, <i>Biology</i> 10: 542-547 (2000) | |
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| | CM | Boehm et al., "Disruption of the KEX1 Gene In <i>Pichia pastoris</i> Allows Expression of Full-Length Murine and Human Endostatin", <i>Yeast</i> , 15:563-572 (1999). | |
| | CN | Bretthauer et al., "Glycosylation of <i>Pichia pastoris</i> -derived proteins", <i>Biotechnology and Applied Biochemistry</i> 30:193-200 (1999) | |
| | CO | Burda et al., "A Novel Carbohydrate-Deficient Glycoprotein Syndrome Characterized by a Deficiency in Glucosylation of the Dolichol-Linked Oligosaccharide", <i>J. Clin. Invest.</i> , Vol. 102, No. 4, 647-652, August 1998. | |
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| | CR | Cereghino et al., "New selectable marker/auxotrophic host strain combinations for molecular genetic manipulation of <i>Pichia pastoris</i> ", <i>Gene</i> , 263:159-169 (2001). | |
| | CS | Chantret et al., "Congenital Disorders of Glycosylation Type Ig is Defined by a Deficiency in Dolichyl-P-mannose: Man7GlcNAc2-PP-dolichyl mannosyltransferase", <i>J. Biol. Chem.</i> , Jul. 12, 2002 (277) 28:25815-25822. | |
| | CT | Chiba et al., "Production of Human Compatible High Mannose-type Sugar Chains in <i>Saccharomyces cerevisiae</i> ", <i>J. Biol. Chem.</i> , 273(41):26298-26304 (1998) | |
| | CU | Choi et al., "Use of combinatorial genetic libraries to humanize N-linked glycosylation in the yeast <i>Pichia pastoris</i> ", <i>Proc. Natl. Acad. Sci. USA</i> 100:5022-5027 (2003). | |
| | CV | Cipollo et al., "The <i>Saccharomyces Cerevisiae</i> alg12delta Mutant Reveals a Role for the Middle-arm Alpha1,2Man-and Upper-Arm alpha1,2Manalpha1,6Man- Residues of Glc3Man9GlcNAc2-PP-Dol in Regulating Glycoprotein Glycan Processing in the Endoplasmic Reticulum and Golgi Apparatus", <i>Glycobiology</i> 2002, (12) 11:749-762 | |
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| | CA1 | Duman et al., "O-Mannosylation of <i>Pichia Pastoris</i> Cellular and Recombinant Proteins", <i>Biotechnology and Applied Biochemistry</i> , 1998, Volume 28, pages 39-45. | |
| | CB1 | Eckhardt et al., "Molecular Cloning of the Hamster CMP-Sialic Acid Transporter", <i>Eur. J. Biochem.</i> , 248(1):187-192 (1997). | |

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| | | | | Filing Date | June 25, 2004 |
| | | | | First Named Inventor | Stefan Wildt et al. |
| | | | | Art Unit | Not Yet Assigned |
| | | | | Examiner Name | Not Yet Assigned |
| Sheet | 3 | of | 6 | Attorney Docket Number | GFI/102 |

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| | CE1 | Gleeson, Paul A. "Targeting of Proteins to the Golgi Apparatus", <i>Histochem. Cell Biol.</i> , 109:517-532 (1998). |
| | CF1 | Graham et al., "Compartmental Organization of Golgi-specific Protein Modification and Vacuolar Protein Sorting Events Defined in Yeast sec18 (NSF) Mutant", <i>J. Cell. Biol.</i> , 114(2):207-218 (1991). |
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| | CJ1 | Hernandez et al., "Structure of the Phosphorylated N-Linked Oligosaccharides from the <i>mnn9</i> and <i>mnn10</i> Mutants of <i>Saccharomyces cerevisiae</i> ", <i>The Journal of Biological Chemistry</i> , 264(23):13648-13659 (1989). |
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| ✓ | CT1 | Krezdorn et al., "Human β 1,4 galactosyltransferase and α 2,6 sialyltransferase expressed in <i>Saccharomyces cerevisiae</i> are retained as active enzymes in the endoplasmic reticulum", <i>Eur. J. Biochem.</i> , 220(3):809-17 (1994). |
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| | CG2 | Puglielli et al., "Reconstitution, Identification, and Purification of the Rat Liver Golgi Membrane GDP-fucose Transporter", <i>J. Biol. Chem.</i> 274(50):35596-35600 (1999). | |
| | CH2 | Raju et al., "Species-specific variation in glycosylation of IgG: evidence for the species-specific sialylation and branch-specific galactosylation and importance for engineering recombinant glycoprotein therapeutics", <i>Glycobiology</i> , 10(5):477-486 (2000) | |
| | CI2 | Reiss et al., "Isolation of the ALG6 Locus of <i>Saccharomyces Cerevisiae</i> Required for glycosylation in the N-linked Glycosylation Pathway", <i>Glycobiology</i> , 1996, July 6(5):493-8. | |
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| Examiner Signature | | | Date Considered |

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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i> | | | | Application Number | 10/500,240 |
| | | | | Filing Date | June 25, 2004 |
| | | | | First Named Inventor | Stefan Wildt et al. |
| | | | | Art Unit | Not Yet Assigned |
| | | | | Examiner Name | Not Yet Assigned |
| Sheet | 6 | of | 6 | Attorney Docket Number | GFI/102 |

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| /JH/ | CE3 | Yoshida, et al., "Expression and characterization of rat EDP-N-acetylglucosamine: α -3-D-mannoside β -1,2-N-acetylglucosaminyltransferase I in <i>Saccharomyces cerevisiae</i> ", <i>Glycobiology</i> , 9 (1):53-8 (1999). | |
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